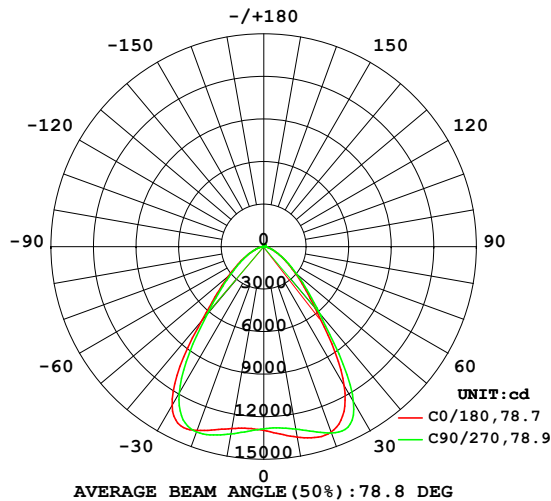


LUMINAIRE PHOTOMETRIC TEST REPORT

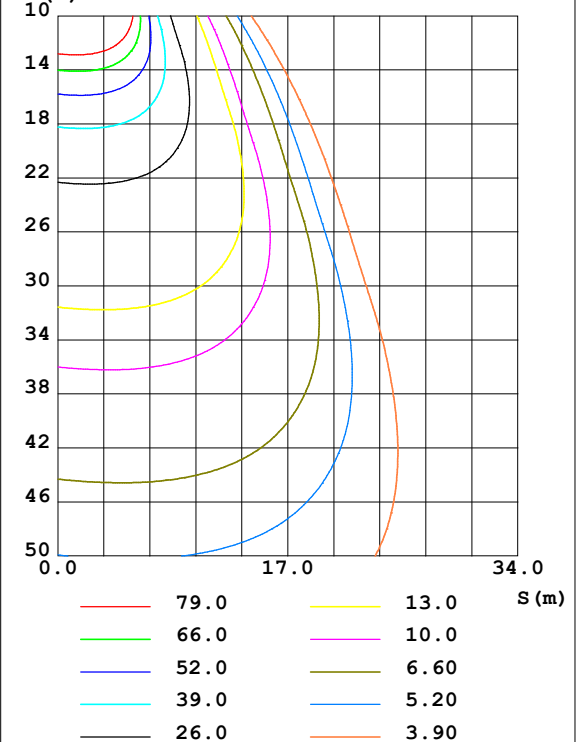
Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.36 lm/W			
MODEL		I _{max} (cd)	14129	S/MH (C0/180)	1.17
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.14
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	24639	η UP, DN (C0-180)	1.2, 47.9
NOMINAL FLUX (lm)	24639.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 49.7
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.15

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1363	1306	1302	1341					0- 10	1251	1251	5.08, 5.08
20	1391	1397	1380	1390					10- 20	3871	5122	20.8, 20.8
30	1135	1267	1294	1194					20- 30	6204	11326	46, 46
40	563.8	612.9	678.0	620.0					30- 40	5723	17049	69.2, 69.2
50	291.2	307.3	327.8	307.0					40- 50	3398	20447	83, 83
60	147.1	152.0	161.0	153.3					50- 60	1985	22432	91, 91
70	66.20	67.16	69.44	66.98					60- 70	1043	23475	95.3, 95.3
80	23.61	24.27	23.13	22.84					70- 80	447.7	23923	97.1, 97.1
90	6.934	7.029	4.515	4.553					80- 90	139.0	24062	97.7, 97.7
100	6.035	6.047	5.189	5.223					90-100	61.27	24123	97.9, 97.9
110	6.224	6.131	6.406	6.505					100-110	62.32	24186	98.2, 98.2
120	7.739	7.463	8.132	8.324					110-120	69.95	24256	98.4, 98.4
130	9.755	9.445	10.14	10.31					120-130	79.68	24335	98.8, 98.8
140	11.79	11.50	12.25	12.41					130-140	84.53	24420	99.1, 99.1
150	14.05	13.63	14.48	14.67					140-150	81.93	24502	99.4, 99.4
160	16.41	15.95	16.58	16.69					150-160	70.56	24572	99.7, 99.7
170	18.44	18.14	18.37	18.39					160-170	49.10	24621	99.9, 99.9
180	19.23	19.25	19.30	19.20					170-180	17.91	24639	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 18966 lm

%lum = 77.0%

%lamp = 77.0%

Conical surface Flux(120deg): 22432 lm

%lum = 91.0%

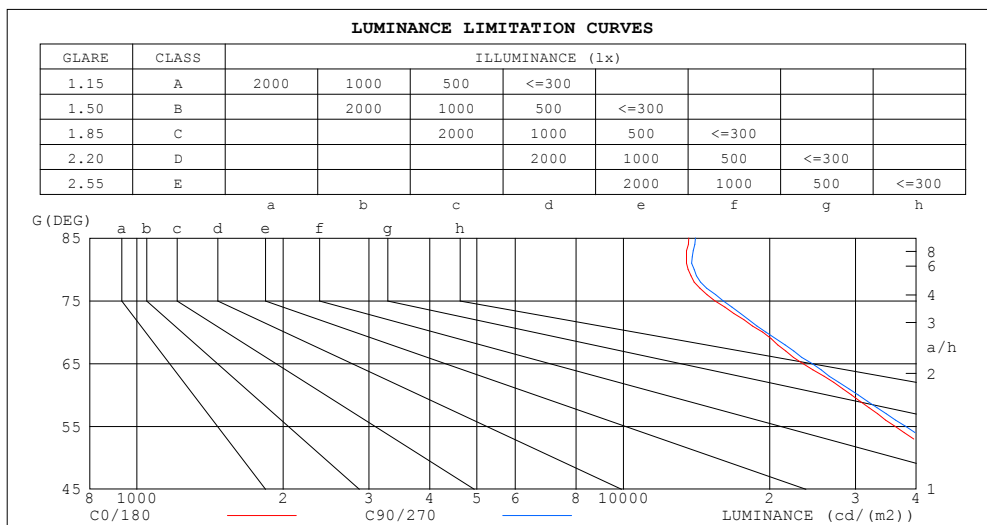
%lamp = 91.0%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13636	14076
80	13597	13977
75	15421	16029
70	19356	19637
65	23392	24410
60	29411	30404
55	36171	38010
50	45307	47807
45	57167	61059

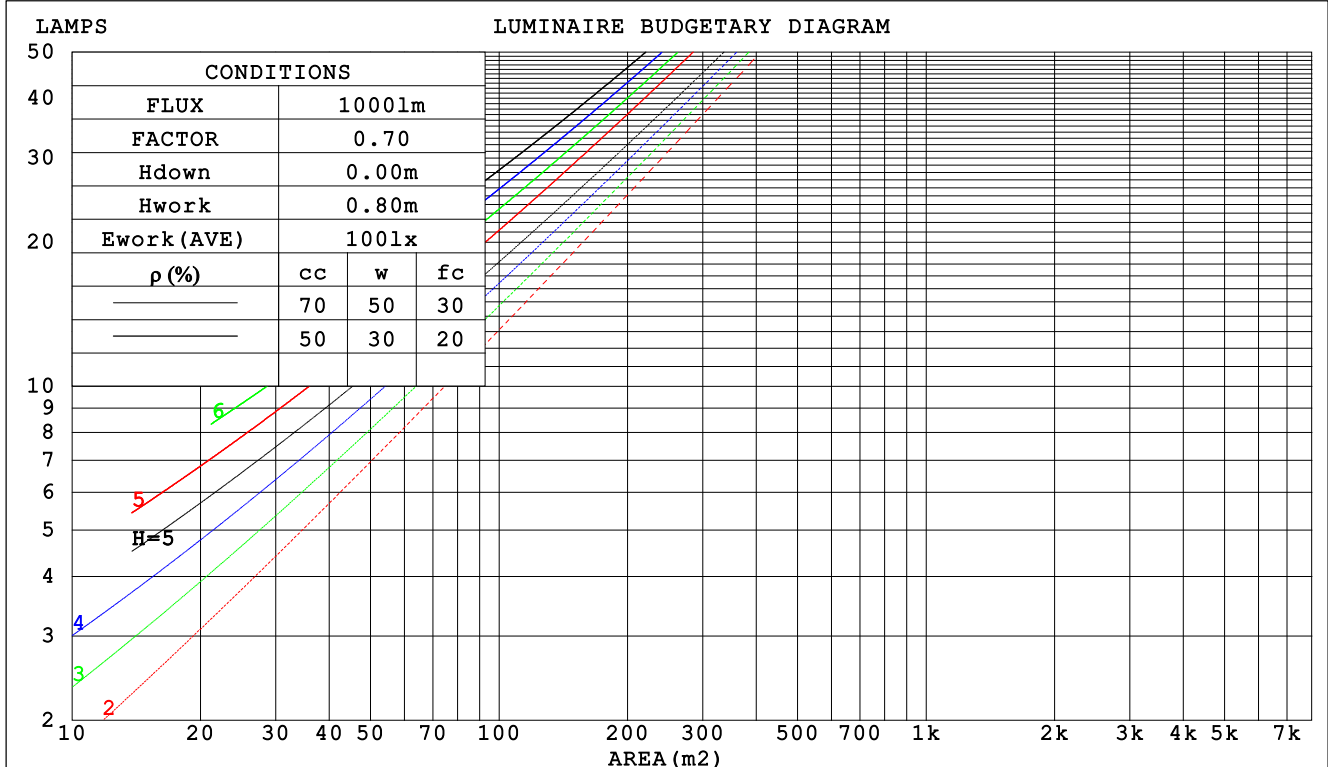
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.96	.96	.94	.93	.92	.91	.90	.87
2.0	.97	.92	.88	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.88	.82	.77	.86	.81	.76	.83	.78	.74	.80	.76	.73	.78	.74	.71	.69
4.0	.80	.73	.68	.79	.72	.67	.76	.71	.66	.74	.69	.65	.72	.67	.64	.62
5.0	.73	.66	.61	.72	.65	.60	.70	.64	.59	.68	.63	.59	.66	.61	.58	.56
6.0	.67	.60	.55	.66	.59	.54	.64	.58	.54	.63	.57	.53	.61	.56	.52	.51
7.0	.62	.55	.49	.61	.54	.49	.60	.53	.49	.58	.52	.48	.57	.52	.48	.46
8.0	.57	.50	.45	.57	.50	.45	.55	.49	.44	.54	.48	.44	.53	.48	.44	.42
9.0	.53	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.49	.44	.40	.39
10.0	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.46	.41	.37	.36



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:		Shielding Angle:	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.231	.131	.042	.224	.128	.041	.209	.120	.038	.196	.113	.036	.184	.107	.034	
2.0	.222	.122	.037	.216	.119	.037	.203	.113	.035	.192	.108	.034	.181	.103	.032	
3.0	.210	.112	.034	.205	.110	.033	.194	.105	.032	.184	.101	.031	.175	.097	.030	
4.0	.199	.103	.030	.193	.101	.030	.184	.098	.029	.175	.094	.028	.167	.091	.028	
5.0	.187	.095	.028	.183	.094	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026	
6.0	.177	.089	.025	.173	.087	.025	.165	.085	.025	.158	.082	.024	.152	.080	.024	
7.0	.167	.083	.023	.164	.082	.023	.157	.079	.023	.151	.077	.022	.145	.075	.022	
8.0	.158	.077	.022	.155	.076	.022	.149	.075	.021	.143	.073	.021	.138	.071	.021	
9.0	.150	.073	.020	.147	.072	.020	.142	.070	.020	.137	.069	.020	.132	.067	.019	
10.0	.143	.069	.019	.140	.068	.019	.135	.066	.019	.131	.065	.018	.126	.063	.018	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.208	.208	.208	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.193	.175	.159	.165	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.181	.150	.125	.155	.129	.108	.106	.090	.075	.061	.052	.044	.020	.017	.014	
3.0	.171	.132	.101	.147	.114	.088	.101	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.163	.118	.084	.140	.102	.073	.096	.071	.051	.056	.042	.030	.018	.014	.010	
5.0	.155	.107	.072	.133	.093	.063	.092	.065	.044	.053	.038	.026	.017	.012	.009	
6.0	.148	.099	.063	.127	.085	.055	.088	.060	.039	.051	.035	.023	.016	.011	.008	
7.0	.142	.091	.056	.122	.079	.049	.084	.056	.035	.049	.033	.021	.016	.011	.007	
8.0	.136	.086	.051	.117	.074	.044	.081	.052	.031	.047	.031	.019	.015	.010	.006	
9.0	.131	.081	.047	.113	.070	.041	.078	.049	.029	.046	.029	.017	.015	.010	.006	
10.0	.126	.076	.043	.109	.066	.038	.075	.047	.027	.044	.028	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	12.7	14.0	13.0	14.2	14.4	13.0	14.2	13.3	14.4	14.7
3H	13.1	14.2	13.4	14.5	14.8	13.4	14.5	13.7	14.7	15.0
4H	13.3	14.3	13.6	14.6	14.9	13.5	14.5	13.8	14.8	15.1
6H	13.3	14.3	13.7	14.6	14.9	13.5	14.5	13.9	14.8	15.1
8H	13.3	14.3	13.7	14.6	14.9	13.6	14.5	13.9	14.8	15.1
12H	13.3	14.2	13.7	14.6	14.9	13.6	14.5	13.9	14.8	15.1
4H 2H	12.9	13.9	13.2	14.2	14.5	13.1	14.1	13.4	14.4	14.7
3H	13.4	14.3	13.8	14.6	15.0	13.6	14.5	14.0	14.8	15.2
4H	13.6	14.4	14.0	14.8	15.1	13.8	14.6	14.2	15.0	15.3
6H	13.7	14.4	14.2	14.8	15.2	13.9	14.6	14.4	15.0	15.4
8H	13.8	14.4	14.2	14.8	15.3	14.0	14.6	14.4	15.0	15.5
12H	13.8	14.4	14.3	14.9	15.3	14.0	14.6	14.5	15.0	15.5
8H 4H	13.6	14.3	14.1	14.7	15.1	13.8	14.5	14.2	14.9	15.3
6H	13.8	14.4	14.3	14.8	15.3	14.0	14.6	14.5	15.0	15.5
8H	13.9	14.4	14.4	14.9	15.4	14.1	14.6	14.6	15.1	15.6
12H	14.0	14.4	14.5	14.9	15.4	14.2	14.6	14.7	15.1	15.6
12H 4H	13.6	14.2	14.0	14.6	15.1	13.8	14.4	14.2	14.8	15.2
6H	13.8	14.3	14.3	14.8	15.3	14.0	14.5	14.5	14.9	15.4
8H	14.0	14.4	14.5	14.8	15.4	14.1	14.5	14.6	15.0	15.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 0.9 / - 0.7					+ 1.2 / - 0.7				
2.0H	+ 1.5 / - 1.2					+ 1.6 / - 1.2				

CIE Pub.117, 24639 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

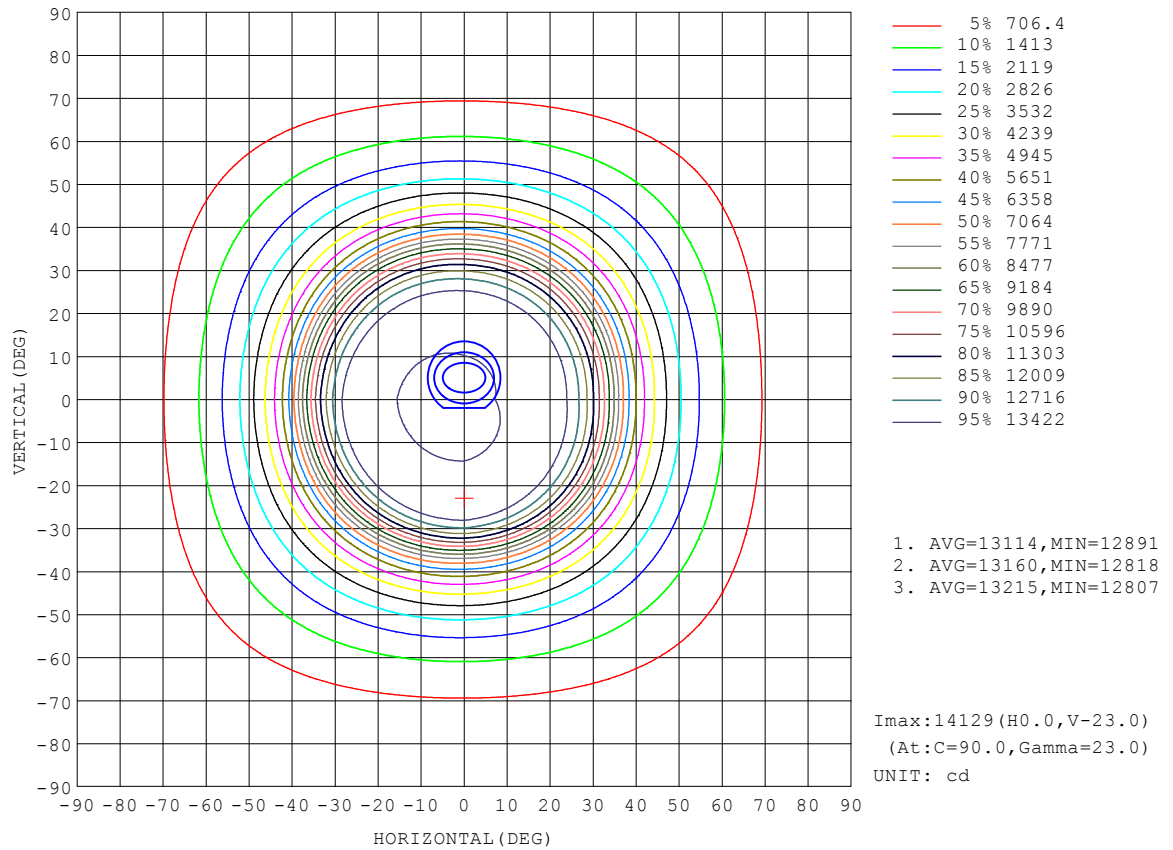
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	71	63	58	70	62	58	53
0.80	81	73	67	80	72	67	79	71	67	61
1.00	88	80	75	87	79	74	85	80	74	68
1.25	94	86	81	92	85	81	90	84	80	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	102	96	92	100	95	91	97	93	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	103	100	98	90
5.00	112	108	105	109	106	104	105	102	100	91
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

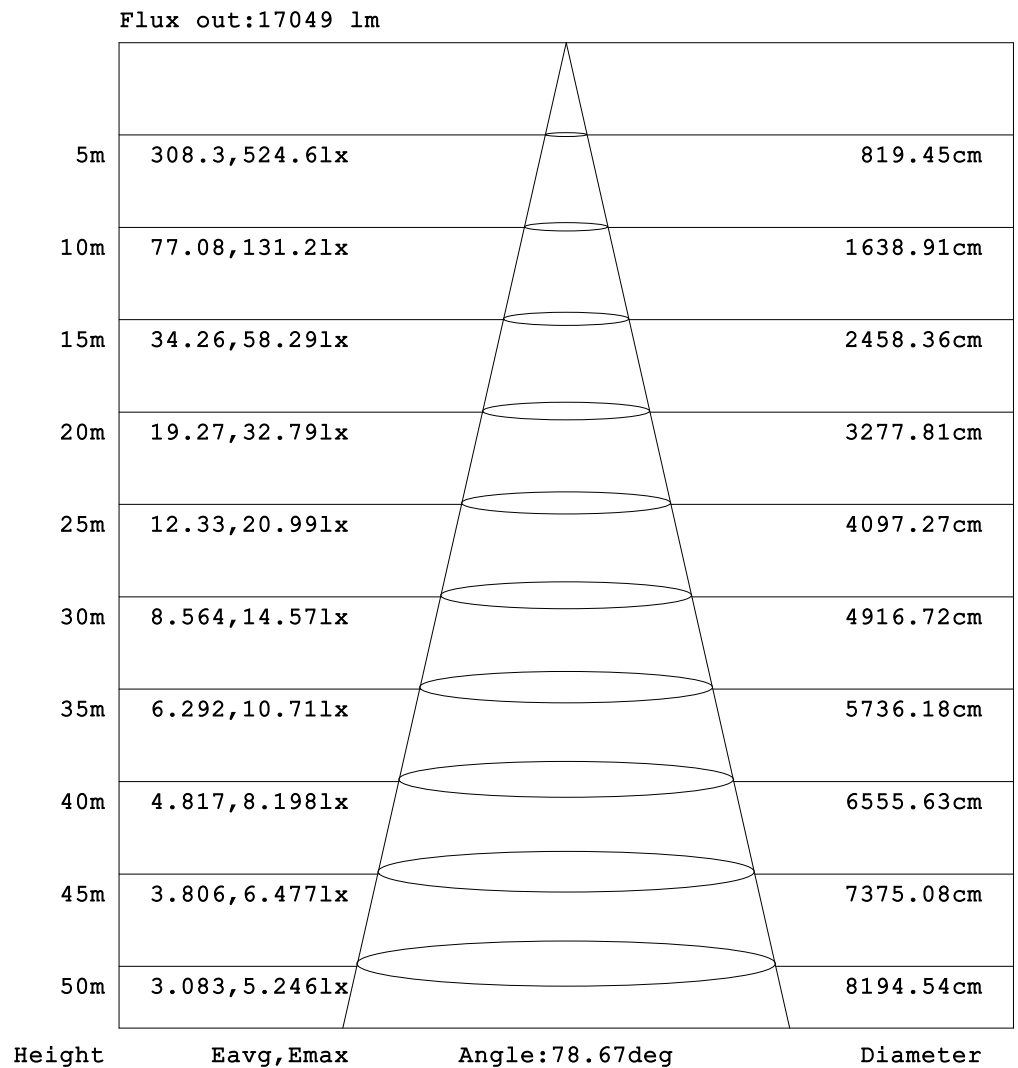


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



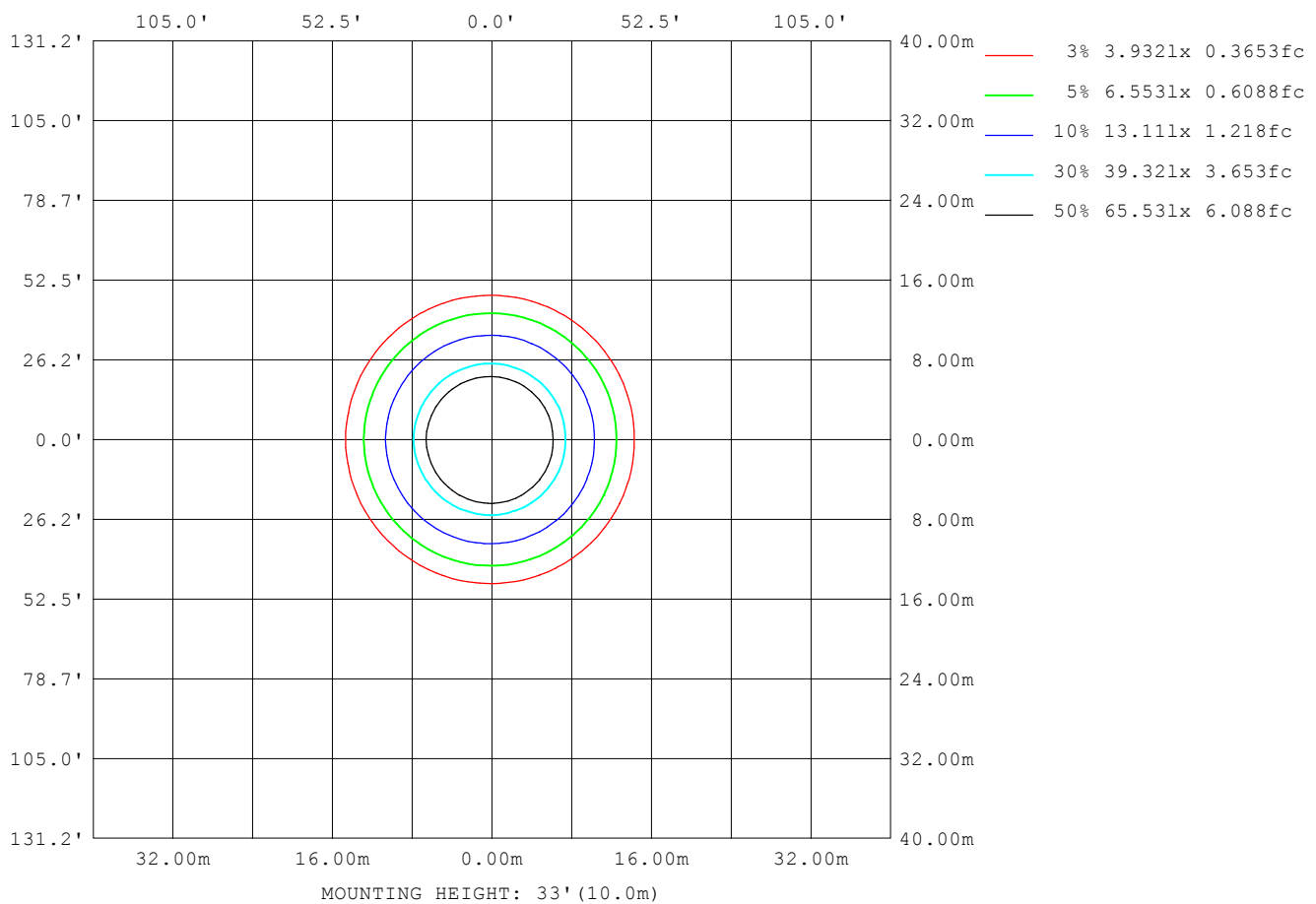
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

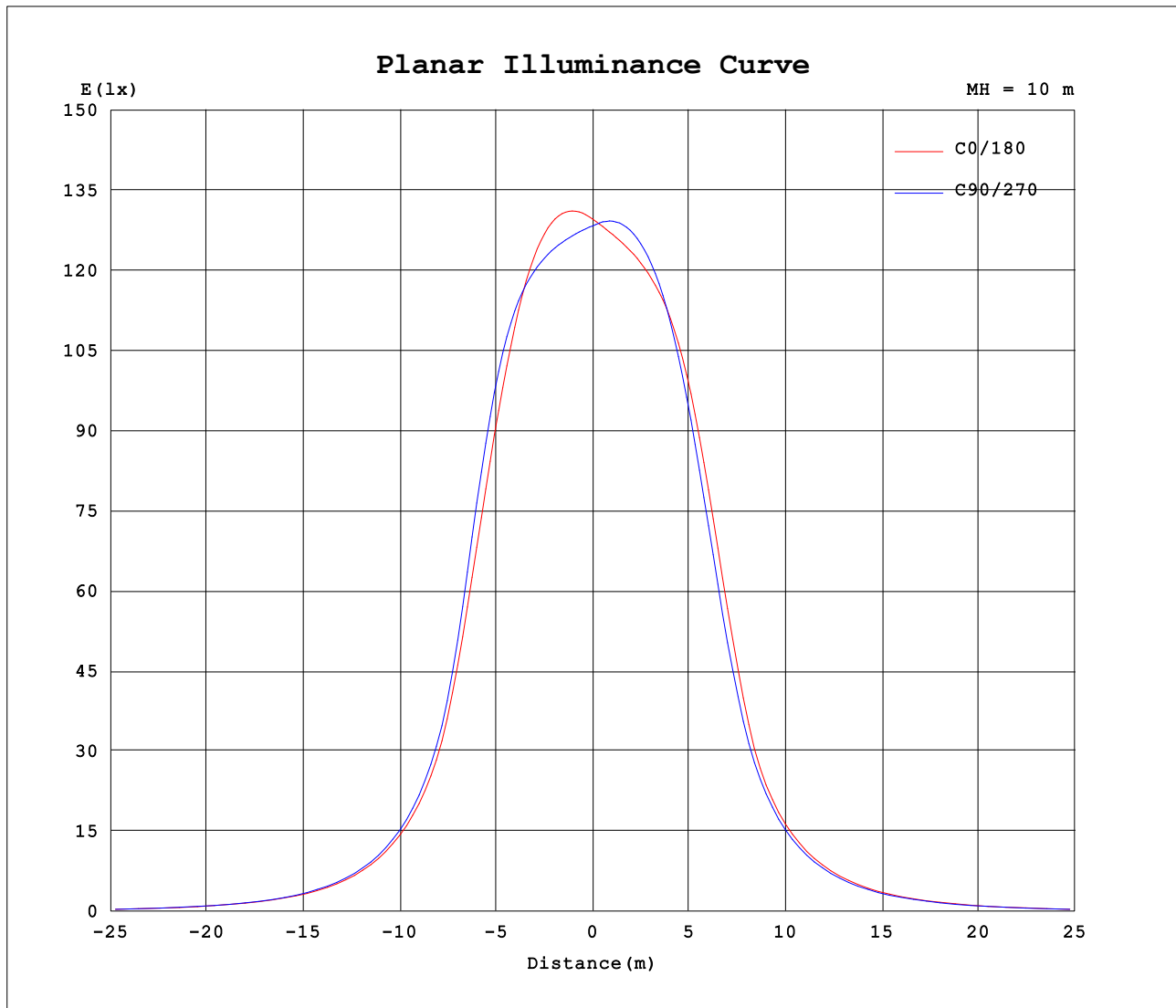
AvgL	cd/m2
L_0~180 (65) av	24359
L_0~180 (75) av	15757
L_0~180 (85) av	13664
L_90~270 (65) av	24497
L_90~270 (75) av	15907
L_90~270 (85) av	13863
L_45 (65) av	24506
L_45 (75) av	15872
L_45 (85) av	13790

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-05-18

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-05-18

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.71V I:0.7024A P:149.91W PF:0.9759 Freq:49.99Hz Lamp Flux:24639.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	1296	1284	1296	1284															
5	1326	1283	1287	1308															
10	1363	1306	1302	1341															
15	1394	1349	1337	1375															
20	1391	1397	1380	1390															
25	1317	1405	1392	1347															
30	1135	1267	1294	1194															
35	840	925	1031	915															
40	564	613	678	620															
45	404	432	464	432															
50	291	307	328	307															
55	207	218	231	218															
60	147	152	161	153															
65	98.9	103	107	104															
70	66.2	67.2	69.4	67.0															
75	39.9	41.5	41.7	40.9															
80	23.6	24.3	23.1	22.8															
85	11.9	12.3	11.9	11.9															
90	6.93	7.03	4.52	4.55															
95	6.35	6.41	4.77	4.80															
100	6.03	6.05	5.19	5.22															
105	5.97	5.95	5.72	5.77															
110	6.22	6.13	6.41	6.51															
115	6.86	6.65	7.22	7.38															
120	7.74	7.46	8.13	8.32															
125	8.73	8.43	9.12	9.31															
130	9.75	9.44	10.1	10.3															
135	10.8	10.5	11.2	11.3															
140	11.8	11.5	12.2	12.4															
145	12.9	12.5	13.4	13.6															
150	14.0	13.6	14.5	14.7															
155	15.2	14.8	15.6	15.7															
160	16.4	16.0	16.6	16.7															
165	17.5	17.1	17.5	17.6															
170	18.4	18.1	18.4	18.4															
175	19.1	18.9	19.0	19.0															
180	19.2	19.3	19.3	19.2															

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